LISTING OF CLAIMS

This listing of claims summarizes the current status of the pending claims as an aid to the Examiner. No claims have been added, cancelled, or amended by this response.

Claim Listing:

1. (Previously Presented) A method comprising:

adding non-IP telephony signaling protocol service reference information to an IP telephony signaling protocol message; and

sending the IP telephony signaling protocol message to a network node.

2. (Previously Presented) A method according to claim 1, wherein said IP telephony signaling protocol message is a message initiating a session.

3. (Previously Presented) A method according to claim 1, the method further comprising:

routing a call to the network node via an entry point; and

performing said adding in the entry point.

4. (Previously Presented) A method according to claim 3, wherein at least the address of the entry point is added as service reference information to the IP telephony signaling protocol message.

5. (Previously Presented) A method according to claim 1, wherein said service reference information comprises CAMEL-related information, the method further comprising:

routing a call to the network node via an entry point;

generating a CAMEL call reference number for the call in the entry point; and

adding at least the CAMEL call reference number as said service reference

information to the IP telephony signaling protocol message in the entry point.

6. (Previously Presented) A method according to claim 1, wherein said service reference information comprises CAMEL-related information, the method further comprising:

routing a call to the network node via an entry point;

generating a CAMEL call reference number for the call in the entry point; and

coding the CAMEL call reference number and the address of the entry point to a digit string; and

adding at least the digit string as service reference information to the IP telephony signaling protocol message in the entry point.

7. (Previously Presented) A method according to claim 1, wherein said IP telephony signaling protocol message is a response message acknowledging a message invoking a session.

8. (Previously Presented) A method according to claim 7, the method further comprising:

receiving an IP telephony signaling protocol message in a network node serving a called subscriber; and

adding at least the address of said network node serving a called subscriber as service reference information to the response message.

9. (Previously Presented) A method according to claim 1, wherein said service reference information comprises CAMEL-related information and said IP telephony signaling protocol message is a response message acknowledging a message invoking a session, the method further comprising:

receiving an IP telephony signaling protocol message invoking a session in a network node serving a called subscriber;

generating a CAMEL call reference number for the call in said network node serving a called subscriber; and

adding at least the CAMEL call reference number as service reference information to the response message in said node serving a called subscriber.

10. (Previously Presented) A method according to claim 1, wherein said service reference information comprises CAMEL-related information and said IP telephony signaling protocol message is a response message acknowledging a message invoking a session, the method further comprising:

receiving an IP telephony signaling protocol message in a network node serving a called subscriber;

generating a CAMEL call reference number for the call in said network node serving a called subscriber;

coding the CAMEL call reference number and the address of said network node serving a called subscriber to a digit string; and

adding at least the digit string as service reference information to the response message.

11. (Previously Presented) A method according to claim 1, wherein said service reference information comprises OSA-related information.

12. (Previously Presented) A method according to claim 1, wherein said service reference information comprises Parlay API-related information.

13. (Previously Presented) A method according to claim 1, wherein said IP telephony signaling protocol comprises SIP.

14. (Previously Presented) A method according to claim 1, wherein said IP telephony signaling protocol comprises H.323.

15. (Previously Presented) A method for providing a network node serving a

called subscriber with CAMEL-related information in an IP-based system using SIP, wherein the method comprises:

routing a call to the network node via an entry point for the called subscriber;

generating a CAMEL call reference number for the call in the entry point;

adding at least the CAMEL call reference number and the address of the entry point as CAMEL-related information to the SIP INVITE message; and

sending the SIP INVITE message to the network node.

16. (Previously Presented) A method-comprising:

routing a call to a network node serving a called subscriber via an entry point for the called subscriber;

generating a CAMEL call reference number for the call in the entry point;

coding the CAMEL call reference number and the address of the entry point in a digit string;

adding at least the digit string as CAMEL-related information to a SIP INVITE message; and

sending the SIP INVITE message to the network node.

17. (Previously Presented) A method comprising:

receiving a SIP INVITE message in a network node serving a called subscriber from an entry point for the called subscriber;

generating a CAMEL call reference number for the call in the network node;

adding at least the CAMEL call reference number and the address of the network node as CAMEL-related information to a SIP response message acknowledging SIP INVITE message; and

sending the SIP response message to the entry point.

18. (Previously Presented) A method comprising:

receiving a SIP INVITE message in a network node serving a called subscriber from an entry point for the called subscriber;

generating a CAMEL call reference number for the call in the network node;

coding the CAMEL call reference number and the address of the network node in a digit string;

adding the digit string as CAMEL-related information to a SIP response message acknowledging the SIP INVITE message; and

sending the SIP response message to the entry point.

19. (Previously Presented) A method according to claim 13, wherein said service reference information comprises CAMEL-related information added to the header of the IP telephony signaling protocol message.

20. (Previously Presented) A method according to claim 13, wherein said service reference information comprises CAMEL-related information added to the body of the SIP message.

21. (Previously Presented) A communications system providing IP telephony, the system comprising:

user equipment;

a first network node; and

a second network node,

wherein

the first network node is arranged to add non-IP telephony signaling protocol service

reference information relating to a call made to the user equipment to an IP telephony signaling protocol message and to send the IP telephony signaling protocol message to the second network node; and

the second network node is arranged to separate the service reference information from the IP telephony signaling protocol message.

22. (Previously Presented) A communications system according to claim 21, wherein

the first network node is arranged to add its address as service reference information to the IP telephony signaling protocol message.

23. (Previously Presented) A communications system according to claim 21, wherein

the communications system provides a CAMEL service; and

the first network node is arranged to generate a CAMEL call reference number and to add at least the generated CAMEL call reference number as service reference information to the IP telephony signaling protocol message.

24. (Original) A communications system using SIP for IP telephony and providing a CAMEL service, comprising at least

user equipment;

a first network node; and

a second network node,

wherein

the first network node is arranged to add CAMEL-related information relating to a call made to the user equipment to a SIP message and to send the SIP message to the second network node; and

the second network node is arranged to separate the CAMEL-related information from the SIP message.

25. (Original) A communications system according to claim 24, wherein

the first network node is arranged to generate a CAMEL call reference number and to add at least the CAMEL call reference number and its address as CAMEL-related information to the SIP message.

26. (Original) A communications system according to claim 24, wherein

the first network node is arranged to generate a CAMEL call reference number, to code at least the CAMEL call reference number and its own address to a digit string and to add at least the digit string as CAMEL-related information to the SIP message; and

the second network node is arranged to decode the digit string.

27. (Previously Presented) A communications system according to claim 24, wherein the SIP message is a SIP INVITE message comprising CAMEL-related information in the header of the SIP INVITE message.

28. (Previously Presented) A communications system according to claim 24, wherein the SIP message is a SIP INVITE message comprising CAMEL-related information in the body of the SIP INVITE message.

29. (Previously Presented) A communications system providing IP telephony, the system comprising:

user equipment;

a first network node; and

a second network node,

wherein

the first network node is arranged to add first service reference information relating to a call made to the user equipment to an IP telephony signaling protocol message initiating a session, to send the IP telephony signaling protocol message initiating a session to the second network node, to receive a response message acknowledging the IP telephony signaling protocol message initiating a session and to separate second service reference information relating to the call from the SIP response message; and

the second network node is arranged to separate the first service reference information from the IP telephony signaling protocol message initiating a session, to add the second service reference information to the response message and to send the response message to the first network node, wherein the first service reference information is non-IP telephony signaling protocol service information.

30. (Original) A communications system using SIP for IP telephony and providing a CAMEL service, comprising at least

user equipment;

a first network node; and

a second network node,

wherein

the first network node is arranged to add first CAMEL-related information relating to a call made to the user equipment to a SIP INVITE message, to send the SIP INVITE message to the second network node, to receive a SIP response message acknowledging the SIP INVITE message and to separate second CAMEL-related information relating to the call from the SIP response message; and

the second network node is arranged to separate the first CAMEL-related information from the SIP INVITE message, to add the second CAMEL-related information to the SIP response message and to send the SIP response message to the first network node.

31. (Original) A communications system according to claim 30, wherein

the first CAMEL-related information includes at least the address of the first network node,

the second network node is further arranged to generate a CAMEL call reference number; and

the second CAMEL-related information includes at least the CAMEL call reference number.

32. (Original) A communications system according to claim 30, wherein

the first network node is further arranged to generate a CAMEL call reference number; and

the first CAMEL-related information includes at least the generated CAMEL call reference number; and

the second CAMEL-related information includes at least the address of the second network node.

33. (Previously Presented) A network node in a communications system providing IP telephony, wherein the network node comprises means for adding non-IP telephony signaling protocol service reference information to an IP telephony signaling protocol message.

34. (Previously Presented) A network node in a communications system providing IP telephony, wherein the network node comprises means for separating non-IP telephony signaling protocol service reference information from an IP telephony signaling protocol message.

35. (Original) A network node in a communications system using SIP and providing a CAMEL service, wherein the network node comprises means for adding CAMEL-related information to a SIP message.

36. (Original) A network node in a communications system using SIP and providing a CAMEL service, wherein the network node comprises means for generating a

CAMEL call reference number and means for adding at least the CAMEL call reference number as CAMEL-related information to a SIP message.

37. (Previously Presented) A network node according to claim 33, wherein the network node comprises a call state control function configured to generate the non-IP telephony signaling protocol service reference information.

38. (Previously Presented) A method according to claim 16, wherein the CAMEL-related information is added to the header of the IP telephony signalling protocol message.

39. (Previously Presented) A method according to claim 16, wherein the CAMEL-related information is added to the body of the SIP message.

40. (Previously Presented) A method according to claim 17, wherein the CAMEL-related information is added to the header of the IP telephony signaling protocol message.

41. (Previously Presented) A method according to claim 17, wherein the CAMEL-related information is added to the body of the SIP message.

42. (Previously Presented) A method according to claim 18, wherein the CAMEL-related information is added to the header of the IP telephony signaling protocol message.

43. (Previously Presented) A method according to claim 18, wherein the CAMEL-related information is added to the body of the SIP message.

44. (Previously Presented) A processor configured to add non-IP telephony signaling protocol service reference information to an IP telephony signaling protocol message.

45. (Previously Presented) A processor configured to separate non-IP telephony signaling protocol service reference information from an IP telephony signaling protocol message.

46. (Previously Presented) A processor configured to separate a charging identifier to be used in billing as charging correlation information from an SIP message.

47. (Previously Presented) A processor configured to generate a charging identifier to be used in billing as charging correlation information and to add at least the charging identifier to an SIP message.

48. (Previously Presented) A computer readable medium having a computer-executable software routine comprising adding non-IP telephony signaling protocol service reference information to an IP telephony signaling protocol message.

49. (Previously Presented) A computer readable medium having a computer-executable software routine comprising separating non-IP telephony signaling protocol service reference information from an IP telephony signaling protocol message.

50. (Previously Presented) A method as claimed in claim 1, wherein the non-IP telephony signaling protocol service reference information comprises a charging identifier generated to be used in billing as charging correlation information.

51. (Previously Presented) A network node according to claim 37, wherein the call state control function is configured to generate, as the non-IP telephony signaling protocol service reference information, a charging identifier to be used in billing as charging correlation information.